Update on Fish Tissue Study August Session

Portland Harbor Pre-Design Investigation (PDI)

August 30, 2018

Summary of August 2018 SMB Sampling

- August 13-24 (11 days)
- 2 fishing vessels
- Staff included boat captains (who also fished), 2 bass club anglers, 2 AECOM scientists, 2 CDMSmith observers
- Rod and reel with bass lure
- Fished throughout PHSS and D/U reach
- All 135 locations sampled once, 40 sampled second time

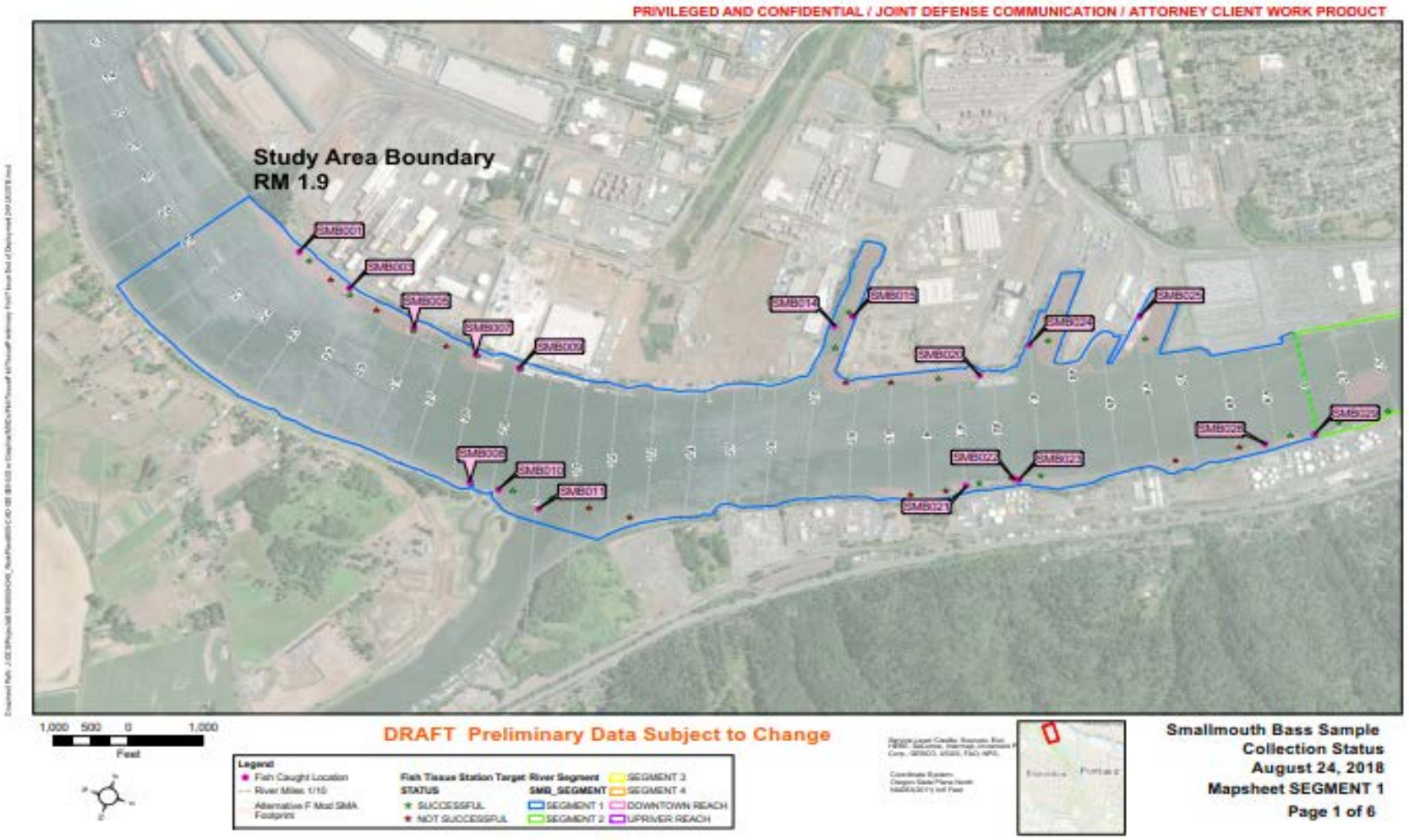
Tally of Fish Caught

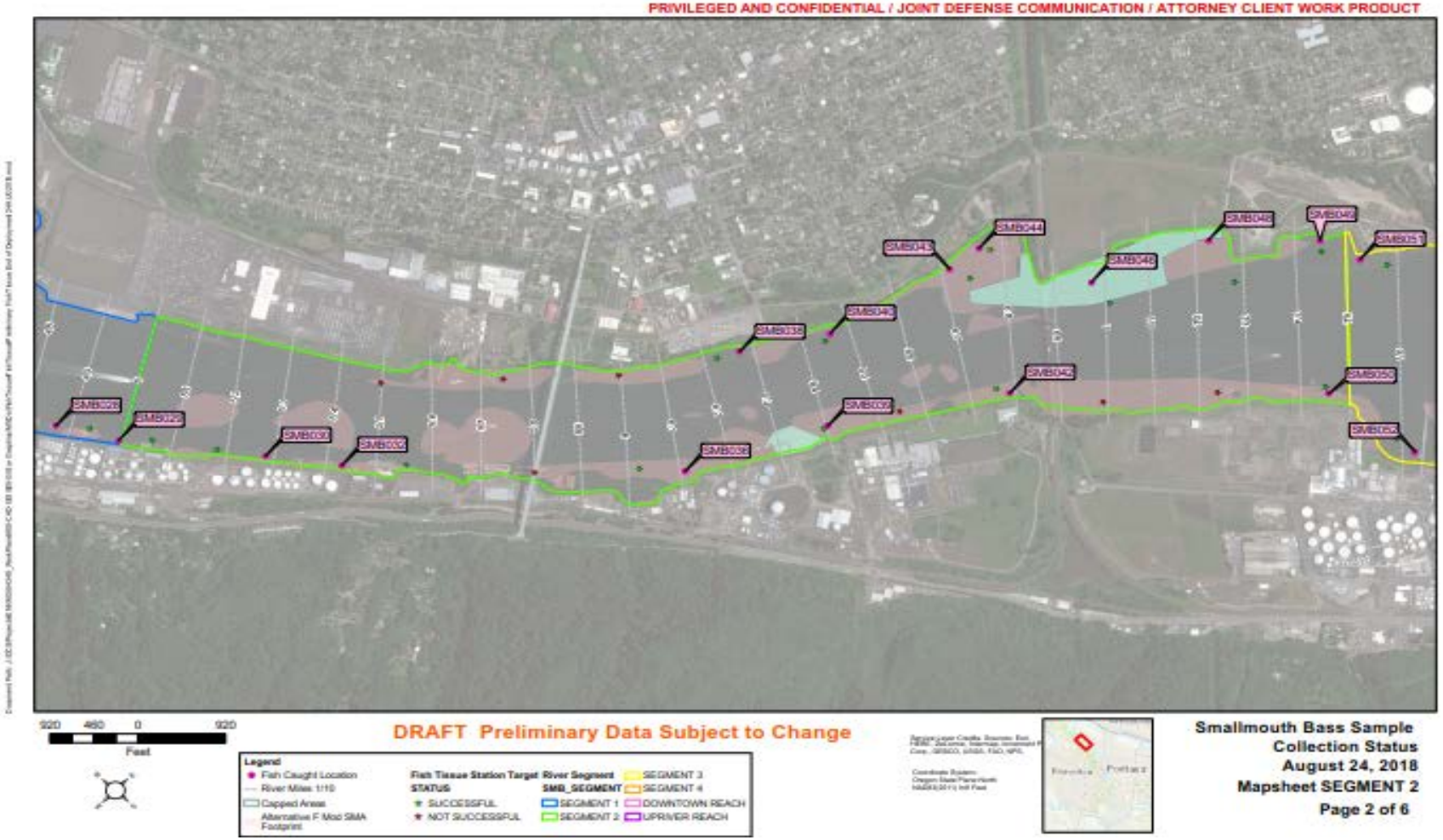
Total SMB Caught	153
Total SMB Kept (Target Size)	101*
Locations in PHSS	68/95
Locations in Downtown Reach	17/20
Locations in Upriver Reach	15/20
Total Non-Target Species Caught	8
Total ESA Species Caught	0

Based on total of 105.5 fishing hours and catch of 101 target size SMB:
Catch per Unit Effort (CPUE) = 0.96

* Includes 2 SMB caught same time at SMB105 (Downtown Reach)

Catch Locations




SMB028
SMB029
SMB030
SMB031
SMB032
SMB033
SMB034
SMB035
SMB036
SMB037
SMB038
SMB039
SMB040
SMB041
SMB042
SMB043
SMB044
SMB045
SMB046
SMB047
SMB048
SMB049
SMB050
SMB051
SMB052
SMB053
SMB054
920 460 0 920
Feet
DRAFT Preliminary Data Subject to Change
Legend
Fish Caught Location
River Miles 1/10
Capped Areas
Alternative F Most SMA Footprint
Fish Tissue Station Target
STATUS
SUCCESSFUL
NOT SUCCESSFUL
River Segment
SMB_SEGMENT
SEGMENT 1
SEGMENT 2
SEGMENT 3
SEGMENT 4
DOWNTOWN REACH
UPRIVER REACH
Smallmouth Bass Sample
Collection Status
August 24, 2018
Mapsheet SEGMENT 2
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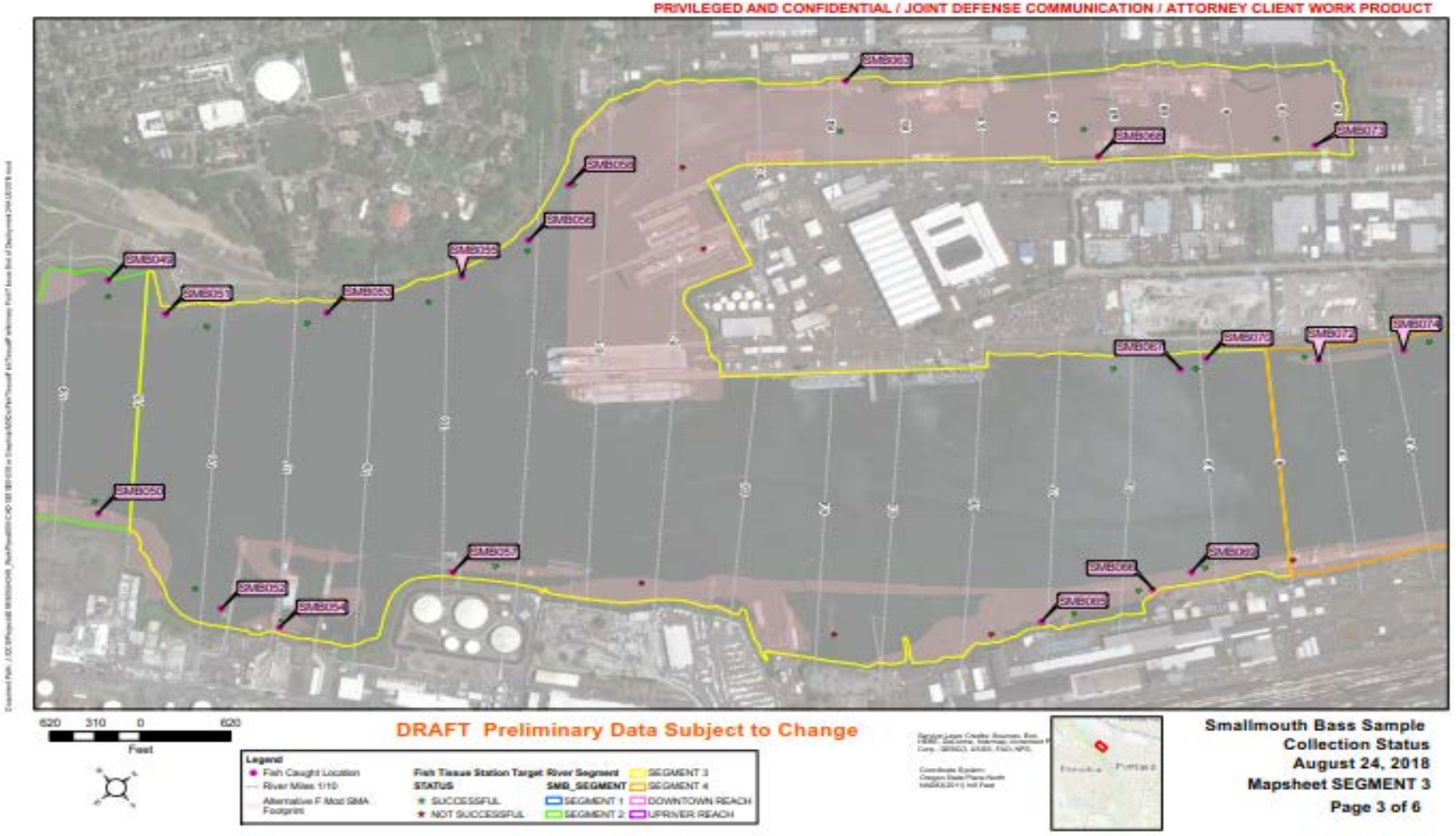
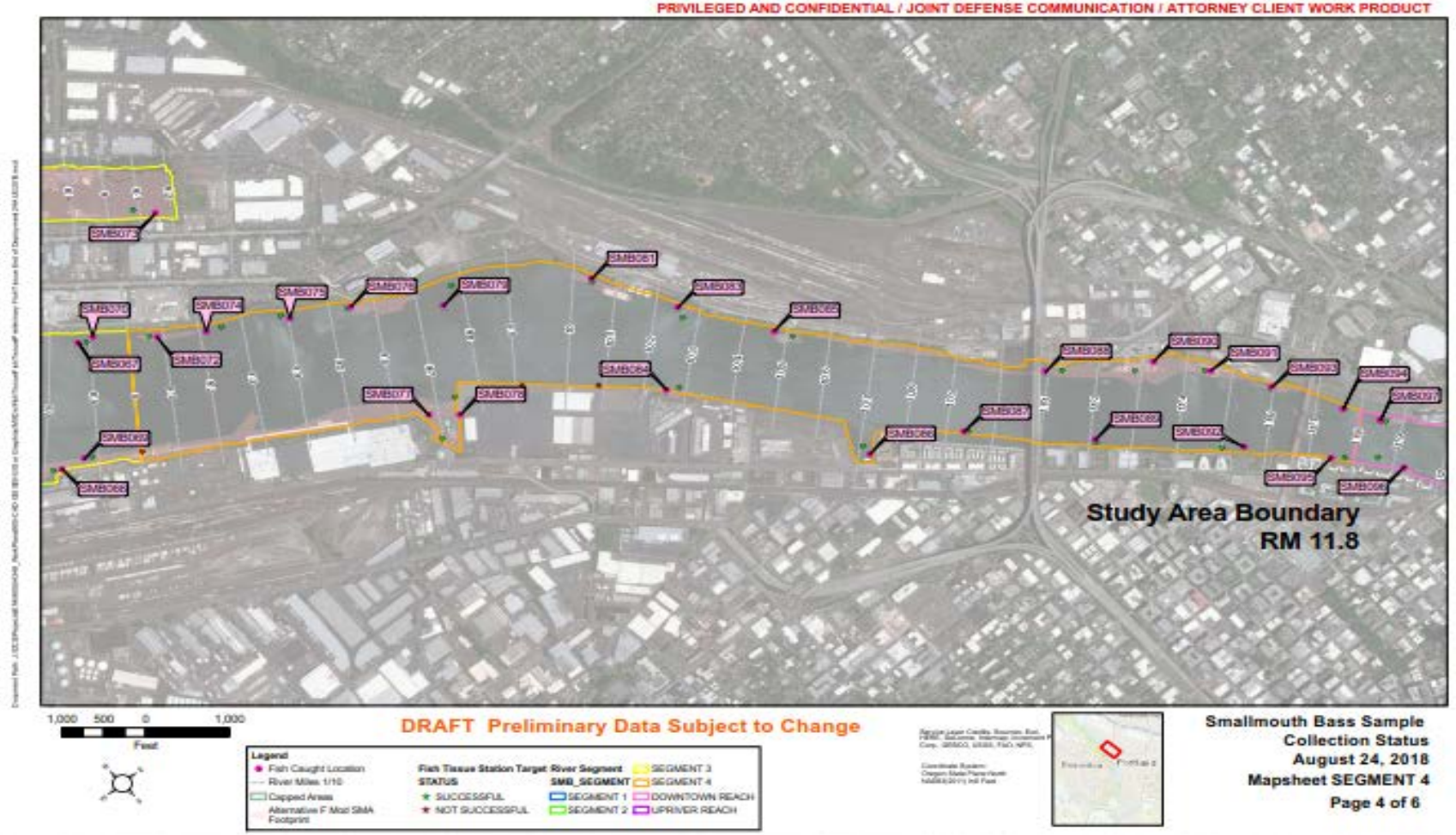


Smallmouth Bass Sample Collection Status
August 24, 2018
Mapsheet SEGMENT 3
Page 3 of 6


Study Area Boundary
RM 11.8
DRAFT Preliminary Data Subject to Change
1,000 500 0 1,000
Feet
Legend
Fish Caught Location
River Miles 1/10
Capped Areas
Alternative F Mod SMA Footprint
Fish Tissue Station Target
STATUS
SUCCESSFUL
NOT SUCCESSFUL
River Segment
SMB_SEGMENT
SEGMENT 1
SEGMENT 2
SEGMENT 3
SEGMENT 4
DOWNTOWN REACH
UPRIVER REACH
Smallmouth Bass Sample Collection Status
August 24, 2018
Mapsheet SEGMENT 4
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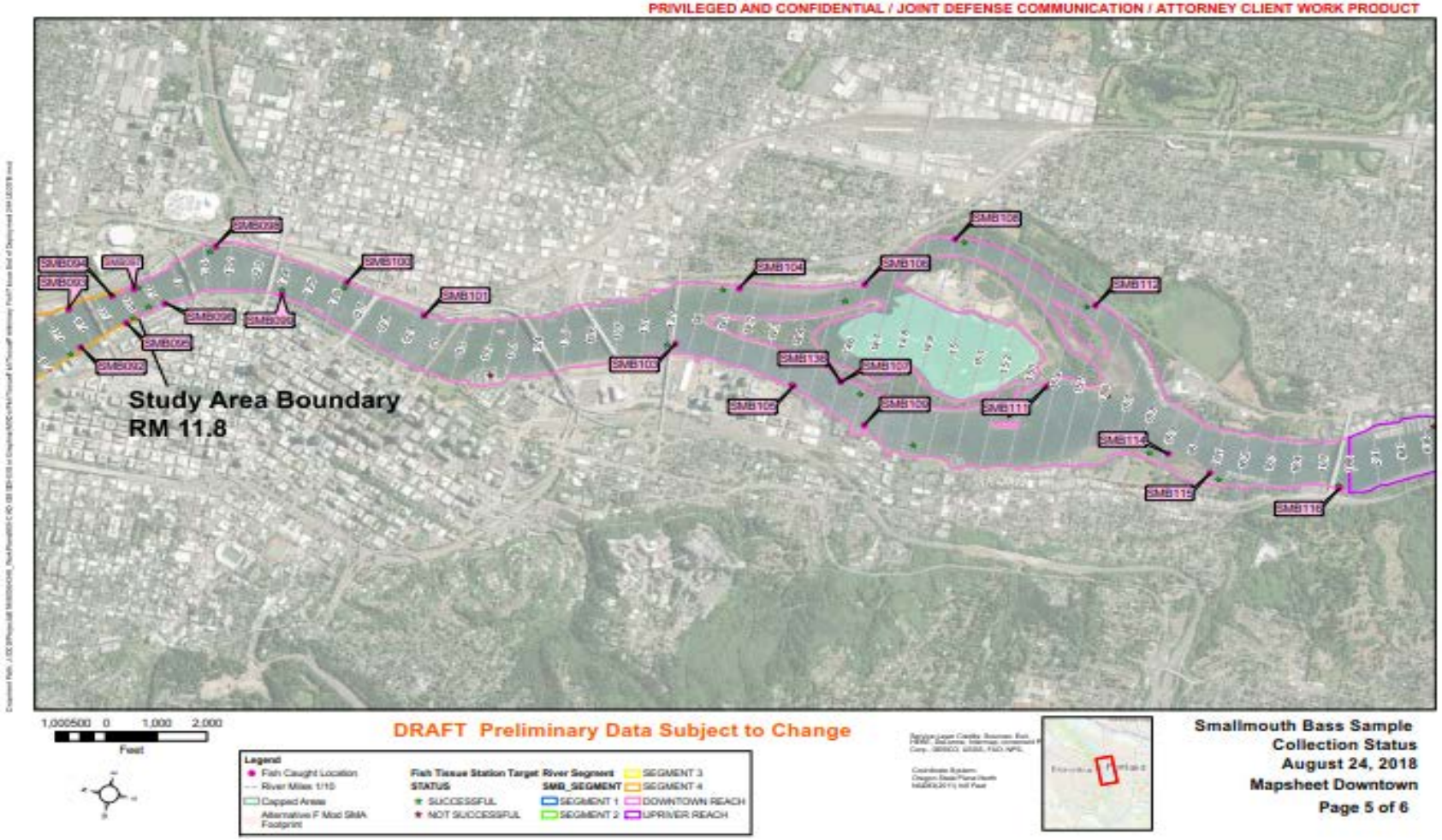

Smallmouth Bass Sample Collection Status
August 24, 2018
Mapsheet Downtown
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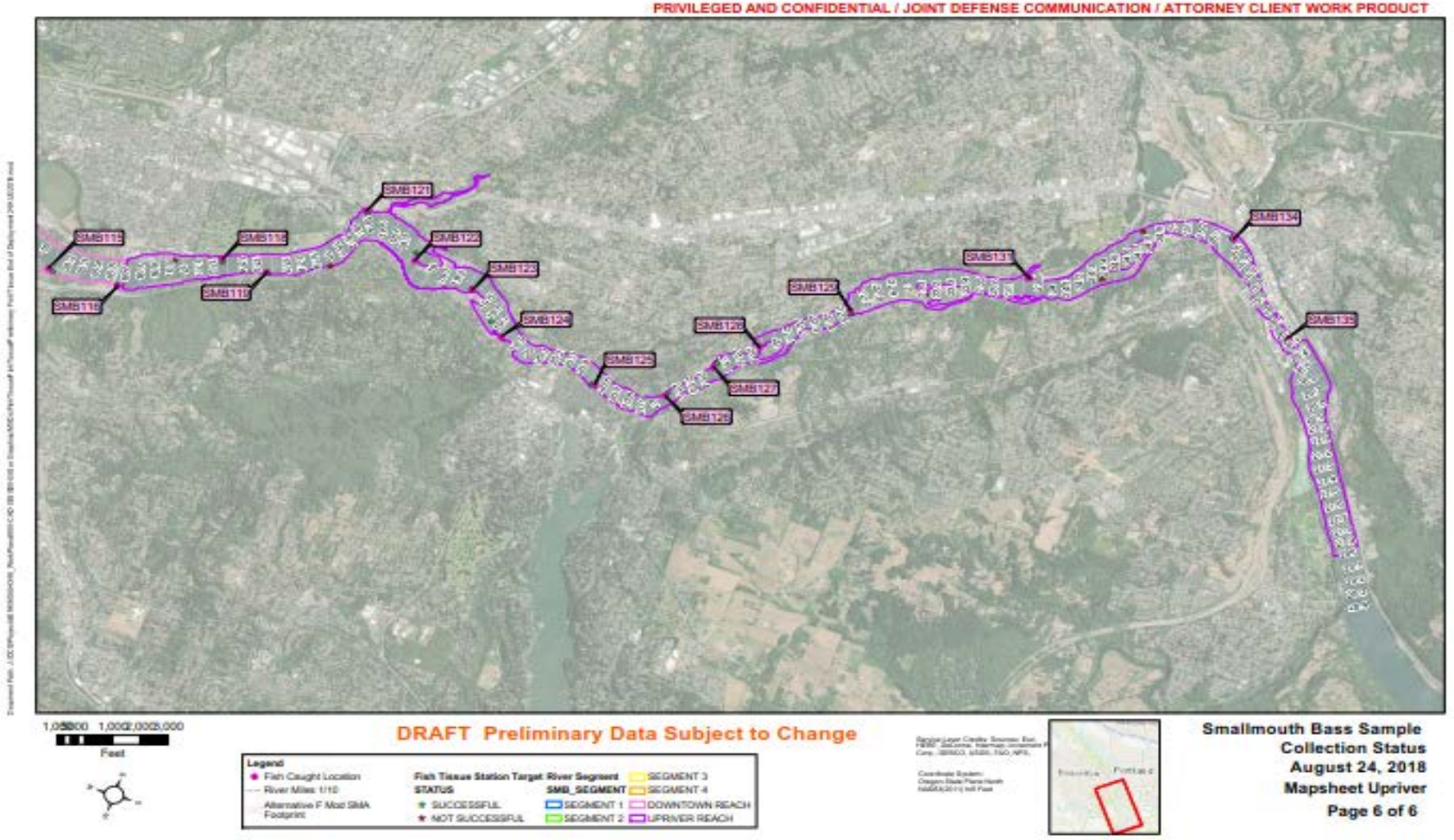
SMB111
SMB110
SMB116
SMB115
SMB121
SMB122
SMB123
SMB124
SMB125
SMB126
SMB127
SMB128
SMB129
SMB130
SMB131
SMB134
SMB135
1,000 0 1,000 2,000 3,000
Feet
DRAFT Preliminary Data Subject to Change
Legend
Fish Caught Location
River Miles 1/10
Alternative F Mod SMA Footprint
Fish Tissue Station Target River Segment
STATUS
SUCCESSFUL
NOT SUCCESSFUL
SMB_SEGMENT
SEGMENT 1
SEGMENT 2
SEGMENT 3
SEGMENT 4
DOWNTOWN REACH
UPRIVER REACH
Smallmouth Bass Sample Collection Status
August 24, 2018
Mapsheet Upriver
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Looking Ahead to September Session

- Continue rod & reel angling focusing on remaining locations
- Target data gaps, two revisits per station
- Of 35 remaining, 10 have been unsuccessful twice:
  - Poor/no habitat
  - Blocked/limited access
- Per FSP, recommend moving to alternate location with suitable habitat and fill spatial data gap

Sample Location ID	Segment	Comment
SMB060	2	Blocked by vessel, deep water, no shoreline
SMB061	2	Blocked by vessel, deep water, no shoreline
SMB071	1	Blocked by vessel, deep water, no shoreline
SMB080	1	Deep water, seawall
SMB082	1	Deep water, seawall
SMB102	Downtown	Busy marina, limited habitat
SMB110	Downtown	Limited habitat, no cover
SMB113	Downtown	Limited habitat, no cover
SMB117	Upriver	Busy marina, limited habitat
SMB120	Upriver	Poor habitat with little to no current, structure or cover